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METHOD OF LOCAL SHAPING OF THERMOPLASTICS

(Description of an invention for an author's certificate)

by

V.I. Tseyler, A.T. Kutserubov

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HUMAN TRANSLATION

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Block	Italic	Transliteration	Block	Italic	Transliteration
А а	А а	A, a	Р р	Р р	R, r
В в	В в	B, b	С с	С с	S, s
В в	В в	V, v	Т т	Т т	T, t
Г г	Г г	G, g	У у	У у	U, u
Д д	Д д	D, d	Ф ф	Ф ф	F, f
Е е	Е е	Ye, ye; E, e*	Х х	Х х	Kh, kh
Ж ж	Ж ж	Zh, zh	Ц ц	Ц ц	Ts, ts
З з	З з	Z, z	Ч ч	Ч ч	Ch, ch
И и	И и	I, i	Ш ш	Ш ш	Sh, sh
Я я	Я я	Y, y	Щ щ	Щ щ	Shch, shch
К к	К к	K, k	ѣ є	ѣ є	"
Л л	Л л	L, l	ѣ є	ѣ є	Y, y
М м	М м	M, m	ѣ є	ѣ є	'
Н н	Н н	N, n	ѣ є	ѣ є	E, e
О о	О о	O, o	Ю ю	Ю ю	Yu, yu
П п	П п	P, p	Я я	Я я	Ya, ya

*ye initially, after vowels, and after ѣ, ѣ; e elsewhere.
When written as ѣ in Russian, transliterate as ye or ѣ.

RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

Russian	English	Russian	English	Russian	English
sin	sin	sh	sinh	arc sh	\sinh^{-1}
cos	cos	ch	cosh	arc ch	\cosh^{-1}
tg	tan	th	tanh	arc th	\tanh^{-1}
ctg	cot	cth	coth	arc cth	\coth^{-1}
sec	sec	sch	sech	arc sch	sech^{-1}
cosec	csc	csch	csch	arc csch	csch^{-1}

Russian	English
rot	curl
lg	log

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Method of Local Shaping of Thermoplastics
(Description of an invention for an author's certificate)

Tseyler, V.I. and Kutserubov, A.T.

(11) 379402

(51) IPC 29c 17/00

(53) UDC 678.027.9(088.8)

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(21) Application number 1663318/23-5

The invention pertains to the area of reprocessing of plastics into products.

The known methods of shaping thermoplastics include shaping with rigid punches, stamping, pneumatic vacuum molding, etc.

In the proposed method the heated thermoplastic material is shaped with a ferromagnetic punch which is interacting with a magnetic matrix. Such a fulfillment of the method simplifies the shaping of parts in places which are not easily accessible.

The method is realized in the following manner.

The ferromagnetic punch is placed in the required position of the part (for example, inside a pipe, reservoir, etc.). The material is heated to softening, the matrix is fed (for example, on the outside of the pipe, reservoir, etc.) and it is magnetized. With the interaction of the ferromagnetic punch with the magnetized matrix the shaping of the material takes place.

The method makes it possible to perform local stamping operations, and also to shape different grooves, shifting the magnetized matrix (and the punch along with it) relative to the part being shaped.

Subject of Invention

A method for local shaping of thermoplastics with a rigid punch which is characterized by the fact that for the purpose of simplifying it when shaping in places on parts which are not easily accessible the heated thermoplastic material is shaped with a ferromagnetic punch which interacts with the magnetized matrix.

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